

Application No. 09/485,153

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 611
1. (Currently Amended) A light source device, comprising:
- a first light source for emitting first light of a first color;
 - a second light source for emitting second light of a second color;
 - a third light source for emitting third light of a third color;
 - a first polarization converter for aligning a polarization direction of said first light by converting one polarization component to the other polarization component;
 - a second polarization converter for aligning a polarization direction of said second light by converting one polarization component to the other polarization component;
 - a third polarization converter for aligning a polarization direction of said third light by converting one polarization component to the other polarization component;
 - a color synthesizing optical system for synthesizing said first, second and third light of which the polarization directions are respectively aligned by said first, second, and third polarization converters,
- wherein the first polarization converter comprises a first reflecting polarizer positioned between the first light source and the color synthesizing optical system, and a first reflector provided inside the first light source so that circularly polarized light that is returned to the first light source is converted by the first polarization converter when it is reflected by the first reflector,
- the second polarization converter comprises a second reflecting polarizer positioned between the second light source and the color synthesizing optical system, and a second reflector provided inside the second light source so that circularly polarized light that

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is returned to the second light source is converted by the second polarization converter when it is reflected by the second reflector,

the third polarization converter comprises a third reflecting polarizer positioned between the third light source and the color synthesizing optical system, and a third reflector provided inside the third light source so that circularly polarized light that is returned to the third light source is converted by the ~~first~~ third polarization converter when it is reflected by the third reflector.

2. (Original) The light source device according to claim 1, characterized in that said first color is a color in a region from orange to red, said second color is a color in a region from green to yellow-green, and said third color is a color in a blue region.

3. (Previously Amended) The light source device according to claim 1, characterized in that said color synthesizing optical system is a dichroic prism.

4. (Previously Amended) The light source device according to claim 1, characterized in that said first, second, and third light sources are light emitting diodes.

5. (Previously Amended) The light source device according to claim 4, characterized in that lenses are deployed between said first, second, and third light sources and said color synthesizing optical system.

6. (Previously Amended) The light source device according to claim 4, characterized in that lens array elements are deployed between said first, second, and third light sources and said color synthesizing optical system.

7. (Previously Amended) The light source device according to claim 1, characterized in that said first, second, and third light sources are flat-panel fluorescent tubes.

8. (Original) The light source device according to claim 9, characterized in that prism array elements are deployed between said flat-panel fluorescent tubes and said color synthesizing optical system.

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14.

(Previously Amended) The light source device according to claim ⁷8, characterized in that said prism array elements are each configured from two mutually perpendicular prism arrays.

¹⁰
14.

(Previously Amended) The light source device according to claim 1, characterized in that said first, second, and third light sources are flat-panel electroluminescent elements.

¹¹
15.

(Original) The light source device according to claim 14, characterized in that said electroluminescent elements are organic electroluminescent elements having organic thin films as light emitting layers.

¹²
16.

(Previously Amended) The light source device according to claim ¹⁰14, characterized in that said organic electroluminescent elements comprise optical resonators in light emitting layer structures thereof.

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19.

(Previously Amended) The light source device according to claim 1, characterized in that said first, second, and third light sources light simultaneously.

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(Previously Amended) The light source device according to claim 1, characterized in that said first, second, and third light sources repeatedly light in order.

¹⁵
21.

(Previously Amended) A display device having:

a light modulating element; and

a light source device according to claim 1; characterized in that:

light from said light source device is modulated in said light modulating element; and

light so modulated is magnified by a projection lens and displayed.

¹⁶
22.

(Previously Amended) The display device according to claim ¹⁵21, characterized in that: said light modulating element is a transmissive type liquid crystal element; said light source device is deployed opposite one face of said liquid crystal element;

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and images formed on said liquid crystal element are magnified by said projection lens and displayed.

¹²23. (Original) The display device according to claim ¹⁴22, characterized in that magnified virtual images of images displayed by a liquid crystal display element are viewed.

¹⁸24. (Original) The display device according to claim ¹⁴22, characterized in that color filters are formed in pixels configuring said liquid crystal display element.

¹⁹25. (Original) The display device according to claim ¹⁸24, characterized in that said light modulating element is a reflecting type light modulating element, and said light source device is deployed opposite reflecting surface of said light modulating element.

²⁰26. (Previously Amended) A display device having:
a light modulating element; and
a light source device according to claim 1; characterized in that:
light from said light source device is modulated in said light
modulating element;
light so modulated is magnified by a projection lens and displayed as
an image;

said light modulating element forms, with time division, a first color
component image, a second color component image, and a third color component image;

said first light source in said light source device is lit during time interval
wherein said first color component image is being formed, said second light source in said
light source device is lit next during time interval wherein said second color component
image is being formed, and said third light source in said light source device is lit next during
time interval wherein said third color component image is being formed; and

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a color image is displayed by sequential display of said first, second, and third color components in said light modulating element, and by sequential lighting of said first, second, and third light sources corresponding to those sequential displays.

²¹₂₇. (Original) The display device according to claim ²⁰₂₆, characterized in that: said light modulating element is a transmissive liquid crystal element; said light source device is deployed opposite one face of said liquid crystal element; and images formed by said liquid crystal element are magnified and displayed by said projection lens.

²²₂₈. (Original) The display device according to claim ²⁰₂₆, characterized in that magnified virtual images of said liquid crystal element are viewed.

²³₂₉. (Previously Added) The light source device according to claim 1, wherein polarization directions of the polarization components are perpendicular to each other.

²⁴₃₀. (Previously Added) The light source device according to claim 1, wherein rotational directions of the polarization components are opposite to each other.